

TEST REPORT

Test report no.: 1-7445/14-03-05-A



Deutsche
Akkreditierungsstelle
D-PL-12076-01-01

Testing laboratory

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01

Area of Testing:

Radio Communications & EMC (RCE)

Applicant

Phonak AG

Laubisruetistrasse 28

8712 Staefa / SWITZERLAND

Phone: -/-

Fax: +41 5 89 28 20 11

Contact: Valentina Shcherba

e-mail: valentina.shcherba@phonak.com

Phone: +41 5 89 28 01 01

Manufacturer

Phonak AG

Laubisruetistrasse 28

8712 Staefa / SWITZERLAND

Test standard/s

47 CFR Part 15

Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS - 210 Issue 8

Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Hearing Aid Remote Control & Media Gateway

Model name: Phonak ComPilot II

FCC ID: KWC-COMPILOT2

IC: 2262A-COMPILOT2

Frequency: 10.6 MHz

Technology tested: Single modulated carrier

Antenna: Ant 1: Integrated ferrite antenna

Ant 2: Neck loop antenna

Power supply: 3.70 V DC by Li - polymer battery and charger

Temperature range: ±0°C to +40°C



This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:



Stefan BöS
Senior Testing Manager

Test performed:



Marco Bertolino
Testing Manager

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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2.2 Application details

Date of receipt of order:	2014-04-03
Date of receipt of test item:	2014-04-07
Start of test:	2014-04-07
End of test:	2014-04-11
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	-/-	Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 210 Issue 8	01.12.2010	Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

4 Test environment

Temperature:	T_{nom}	+22 °C during room temperature tests
	T_{max}	+40 °C during high temperature tests
	T_{min}	±0 °C during low temperature tests
Relative humidity content:		42 %
Barometric pressure:		not relevant for this kind of testing
Power supply:	V_{nom}	3.70 V DC by Li - polymer battery and charger
	V_{max}	4.20 V
	V_{min}	3.55 V

5 Test item

Kind of test item	:	Hearing Aid Remote Control & Media Gateway
Type identification	:	Phonak ComPilot II
S/N serial number	:	No serial number available!
HW hardware status	:	REV3
SW software status	:	0.4.33.16
Frequency band [MHz]	:	10.6
Type of radio transmission	:	Single channel duplex (HIBAN 2)
Use of frequency spectrum	:	
Type of modulation	:	8-DPSK (DQPSK)
Number of channels	:	1
Antenna	:	Ant 1: Integrated ferrite antenna Ant 2: Neck loop antenna
Power supply	:	3.70 V DC by Li - polymer battery and charger
Temperature range	:	±0°C to +40 °C

5.1 Additional information

Test setup- and EUT-photos are included in test report: 1-7445/14-03-01_AnnexA
 1-7445/14-03-01_AnnexB
 1-7445/14-03-01_AnnexD

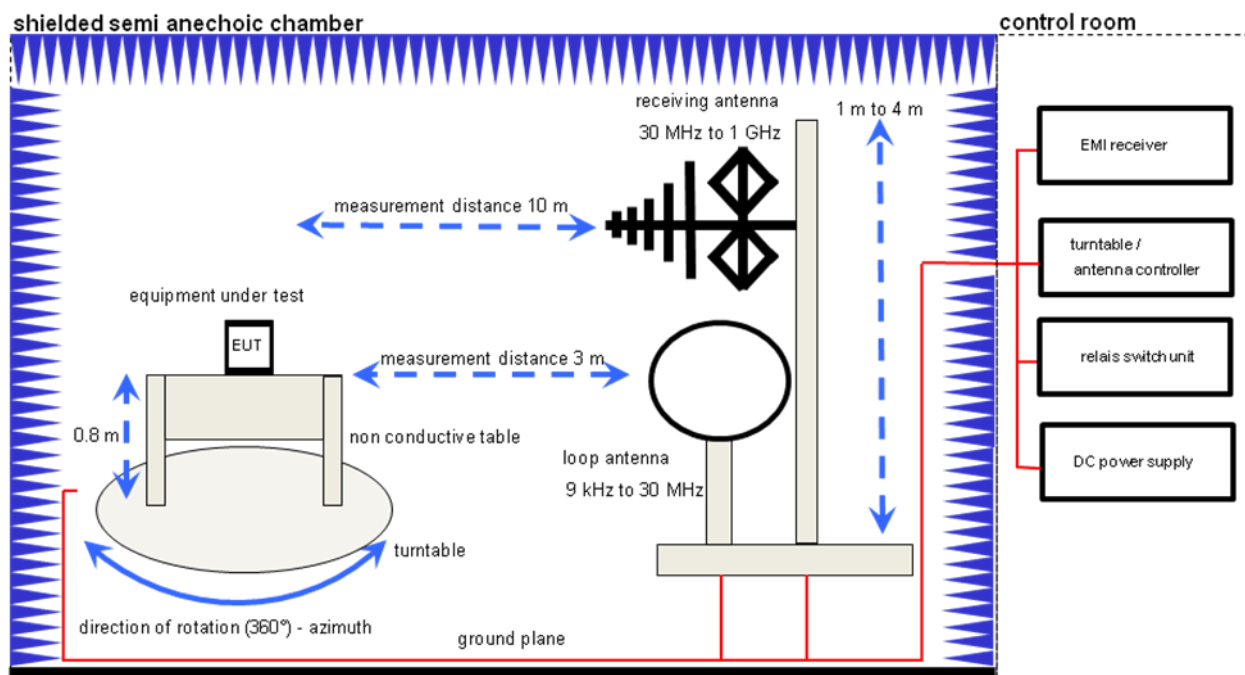
6 Test laboratories sub-contracted

None

7 Description of the test setup

7.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.

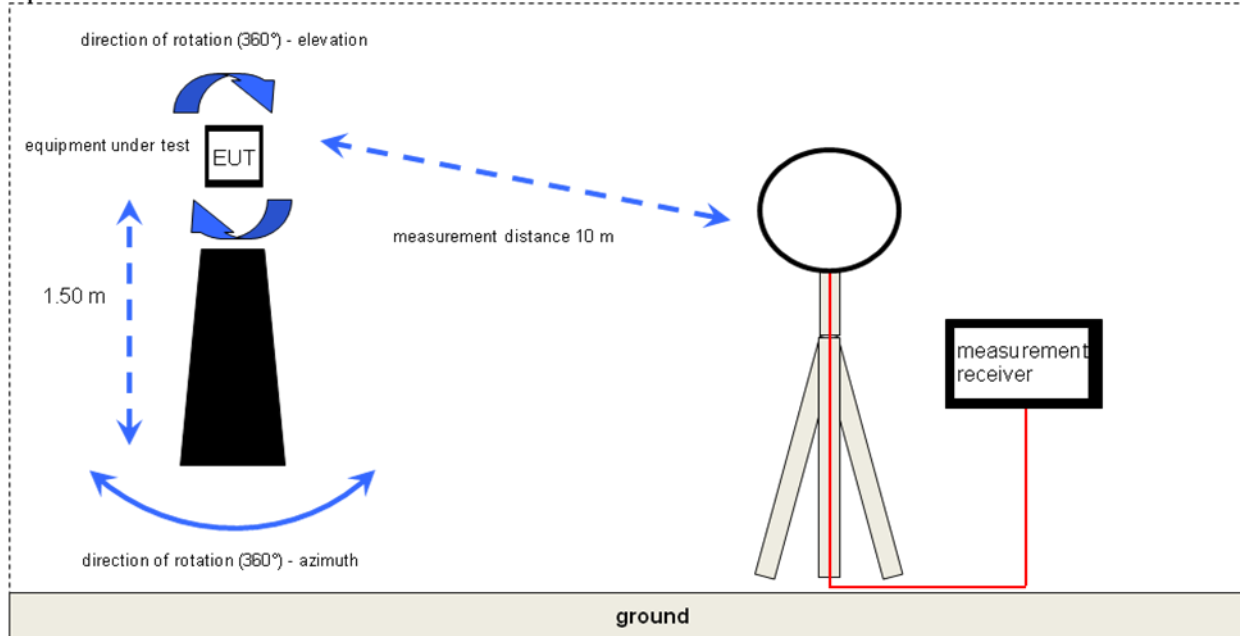


Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368
DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580
EMI Test Receiver	ESCI 3	R&S	100083	300003312
Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745
Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746
Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787

7.2 Open area site

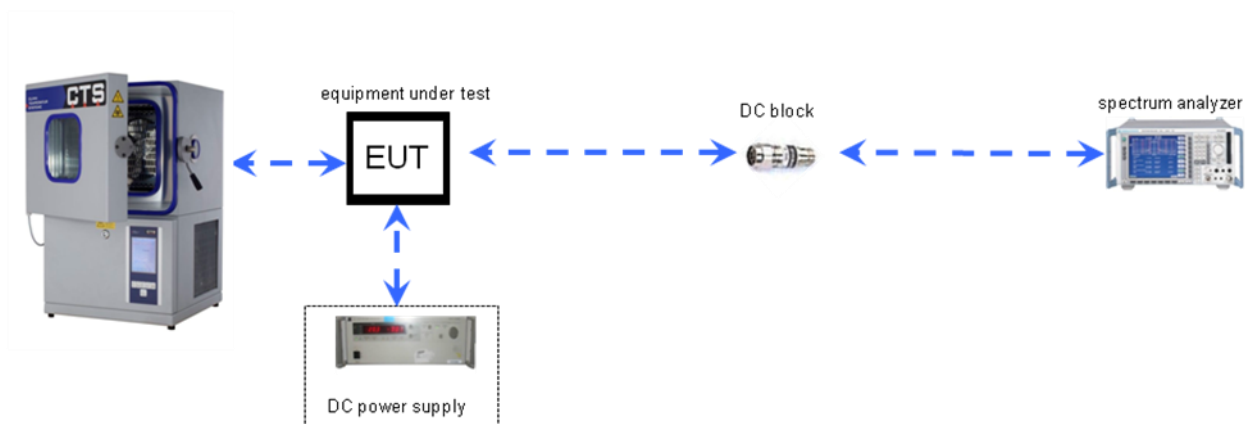
Open area site



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Test Receiver	ESH2	R&S	871921/095	300002505
Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824

7.3 Conducted measurements



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Temperature Test Chamber	VT 4002	Heraeus Voetsch	521/84193	300003889
Signal Analyzer 40 GHz	FSV40	R&S	101042	300004517
Power Supply 0-20V, 0-5A	6632B	Agilent Technologies	GB42110541	400000562

8 Summary of measurement results



No deviations from the technical specifications were ascertained



There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8	Passed	2014-06-05	-/-

Test Specification Clause	Test Case	Temperature Conditions	Power Source Voltages	Pass	Fail	NA	NP	Remark
§ 15.209 RSS-210 Issue 8	Fieldstrength of Fundamental	Nominal	Nominal	☒	☐	☐	☐	complies
RSS-GEN Issue 3	Occupied bandwidth 99 % bandwidth	Nominal	Nominal	☒	☐	☐	☐	complies
§ 15.209/ RSS-210 Issue 8	Fieldstrength of harmonics and spurious	Nominal	Nominal	☒	☐	☐	☐	complies
§ 15.209 RSS-GEN Issue 3	Receiver spurious emissions (radiated)	Extreme	Nominal	☒	☐	☐	☐	complies
§15.107 §15.207	Conducted limits	Nominal	Nominal	☒	☐	☐	☐	complies

Note: NA = Not Applicable; NP = Not Performed

9 Additional comments

Reference documents: None

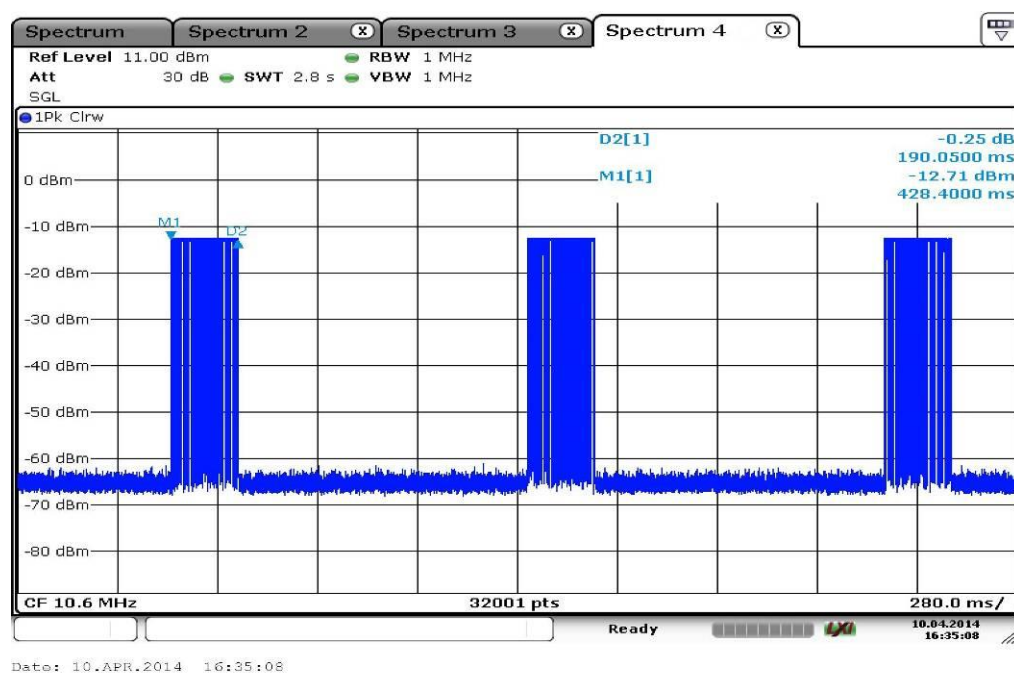
Special test descriptions: We perform the radiated pre-scans in different spherical positions and consolidate the results in one result plot. The test procedure includes scans in the theta axes every 90° and in phi axes @ 0° and 90° for both polarizations vertical & horizontal or magnetic emissions.

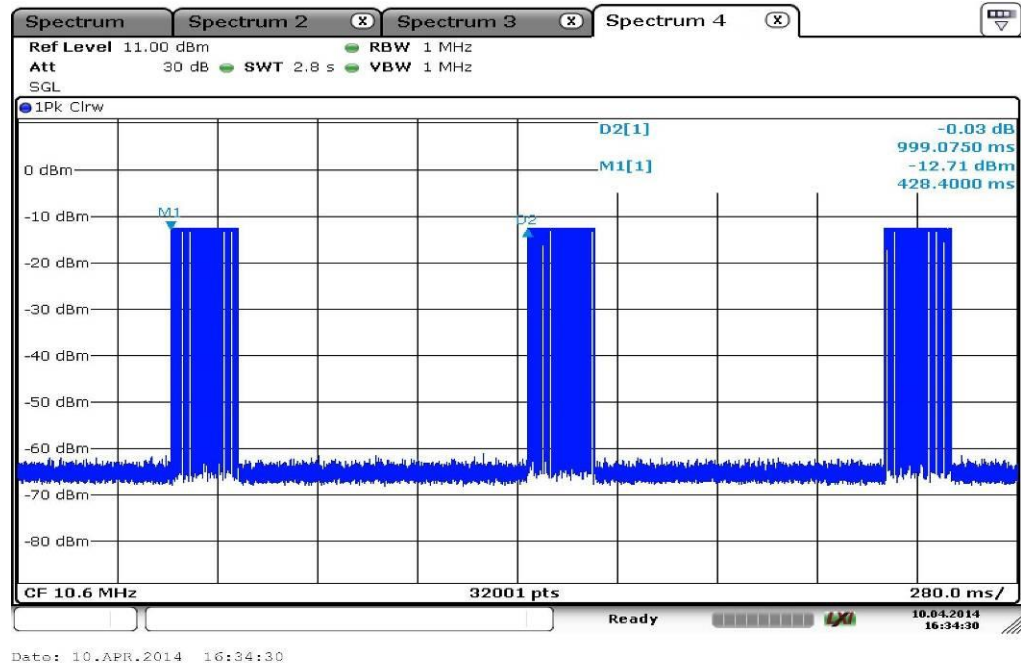
Configuration descriptions: None

Additional information: Timing of the transmitter

Plots:

Plot 1: Timing of the transmitter; TX and RX packets



Plot 2: Timing of the transmitter; TX interval

Measured TX duty cycle: 19.02 %

DC = TX packet length / TX interval * 100 % = 190 ms / 999.07 ms * 100 = 19.02 %

10 Measurement results

10.1 Field strength of the fundamental

Measurement:

Measurement parameter	
Detector:	Peak / quasi peak
Sweep time:	-/-
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ RBW
Span:	-/-
Trace-Mode:	Max Hold

Limits:

FCC	IC
29 dBμV/m @ 300 m	

Results:

Test conditions		Radiated field strength / (dBμV/m)	
Frequency		10.6 MHz	
Mode		at 10 m distance	at 30 m distance
Ant. 1: Integrated ferrite antenna			
T _{nom}	V _{nom}	35.0	15*
Ant. 2: Neck loop antenna			
T _{nom}	V _{nom}	32.5	12.5*
Measurement uncertainty		±3dB	

*Re-calculated from 30m to 3m with 40 dB/decade according to FCC 15.31 (f2)

Result: Passed

10.2 Occupied bandwidth (99% bandwidth)

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	1 s
Resolution bandwidth:	1% of the span (30 kHz)
Video bandwidth:	> RBW (100 kHz)
Span:	3 MHz
Trace-Mode:	Max hold

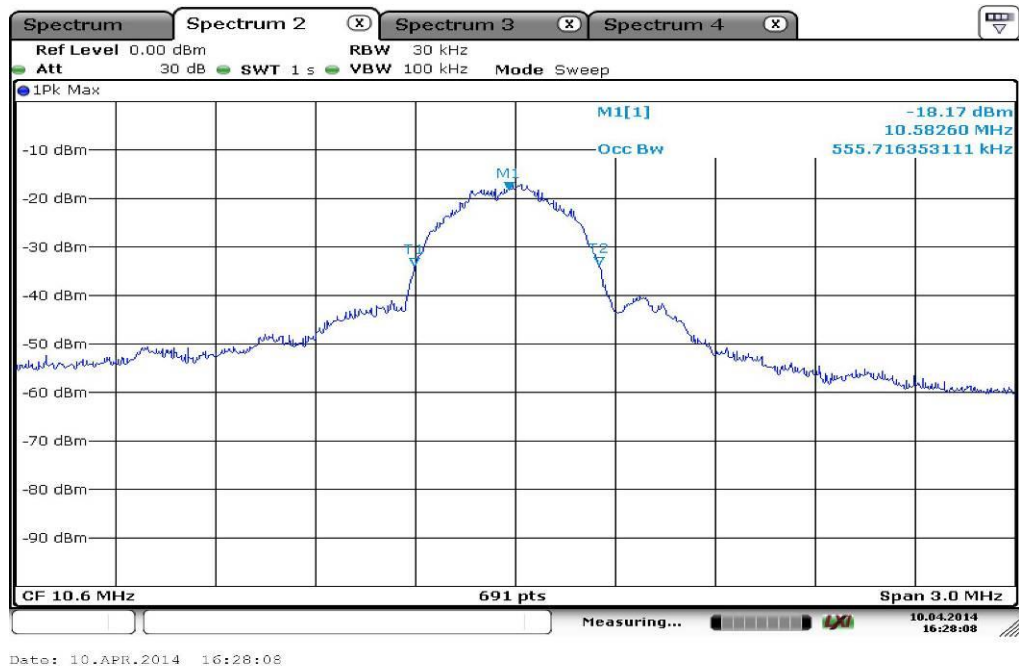
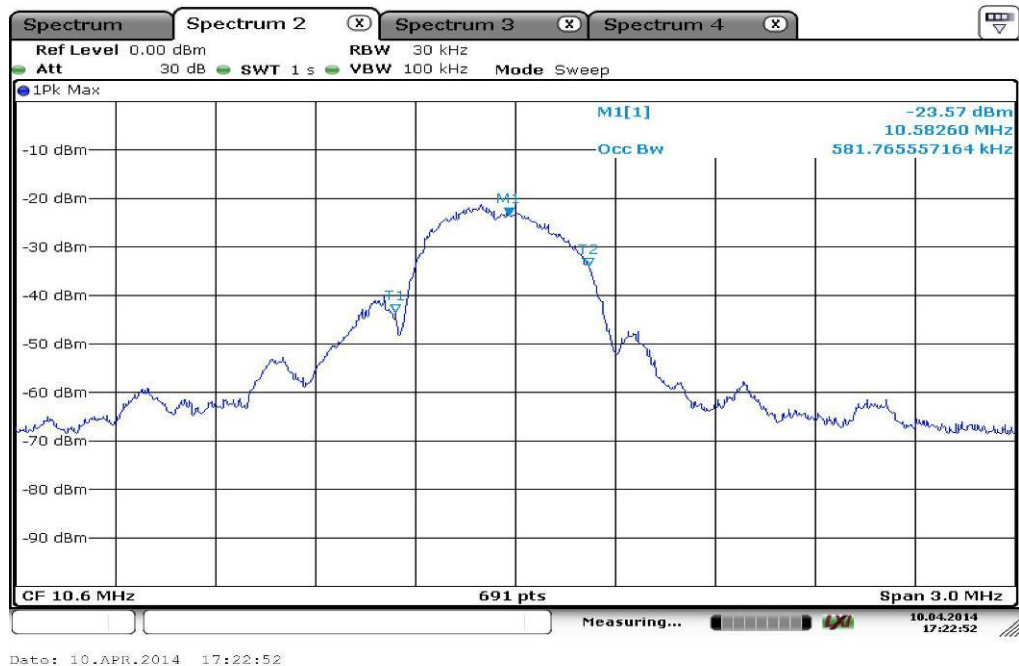
Limits:

IC
-/-

Results:

Test conditions		99 % bandwidth
Frequency		10.6 MHz
Ant. 1: Integrated ferrite antenna		
T_{nom}	V_{nom}	555.7
Ant. 2: Neck loop antenna		
T_{nom}	V_{nom}	581.8
Measurement uncertainty		$\pm 500\text{Hz}$

Result: Passed

Plots:**Plot 1: 99% bandwidth, integrated ferrite antenna****Plot 2: 99% bandwidth, neck loop antenna**

10.3 Field strength of the harmonics and spurious

Measurement:

Measurement parameter	
Detector:	Average / Quasi Peak
Sweep time:	Auto
Resolution bandwidth:	F < 150 kHz: 200 Hz 150 kHz > F > 30 MHz: 9 kHz F > 30 MHz: 120 kHz
Video bandwidth:	F < 150 kHz: 1 kHz 150 kHz > F > 30 MHz: 100 kHz F > 30 MHz: 300 kHz
Span:	See plots!
Trace-Mode:	Max hold

Limits:

FCC		IC
Field strength of the harmonics and spurious.		
Frequency / (MHz)	Field strength / ($\mu\text{V/m}$)	Measurement distance / (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30 (29.5 dB $\mu\text{V/m}$)	30
30 – 88	100 (40 dB $\mu\text{V/m}$)	3
88 – 216	150 (43.5 dB $\mu\text{V/m}$)	3
216 – 960	200 (46 dB $\mu\text{V/m}$)	3

Result:

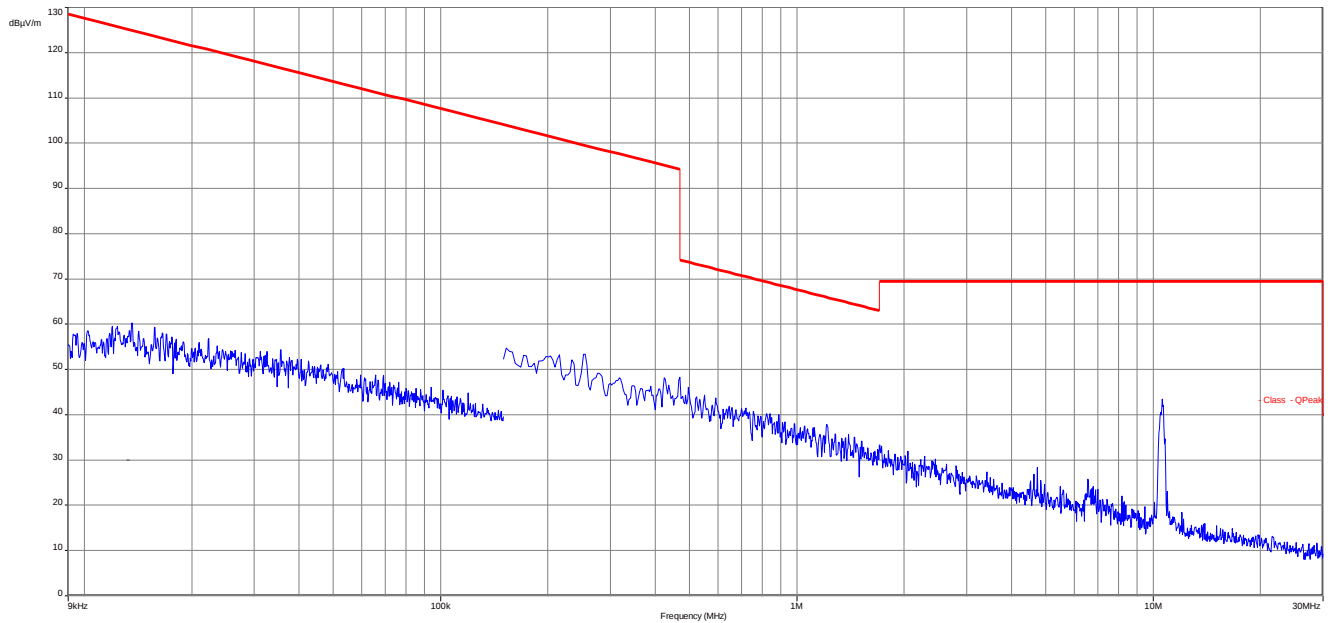
Spurious emissions				
f / (MHz)	Detector	Limit max. allowed / (dB $\mu\text{V/m}$)	Amplitude of emission / (dB $\mu\text{V/m}$)	Results
See tables below the 1 GHz plots!				

Result: Passed

Note: The limit was recalculated with 20 dB / decade (Part 15.31) for all radiated spurious emissions 30 MHz to 1 GHz from 3 meter limit to a 10 meter distance. (40dB/decade for emissions < 30MHz)

Plots: TX mode, internal antenna

Plot 1: 9 kHz – 30 MHz; magnetic, internal antenna



Plot 2: 30 MHz – 1000 MHz, vertical and horizontal polarization, internal antenna

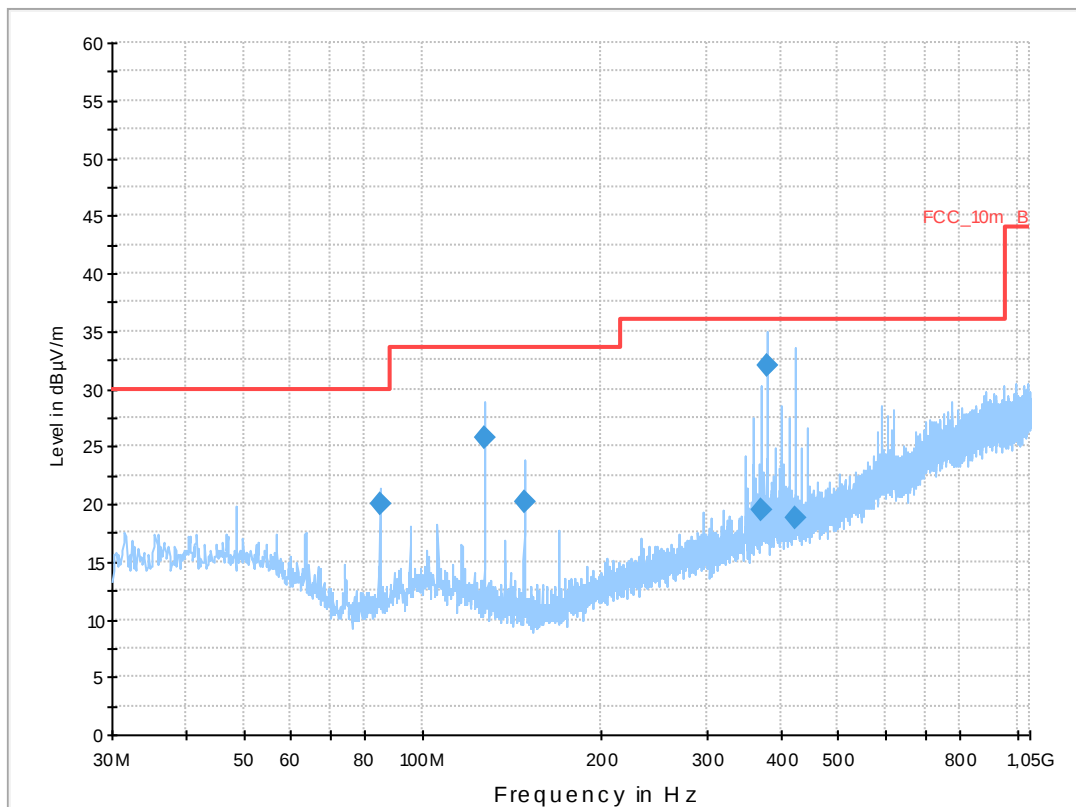
Common Information

EUT: ComPilot II
 Test Description: FCC part 15 class B @ 10 m
 Operating Conditions: tx@10.6MHz high power with internal antenna, neckloop antenna connected, duty cycle 32mS on / 970mS off
 Operator Name: Wolsdorfer
 Comment: battery powered,

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Receiver: [ESC1 3]
 Level Unit: dBμV/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB

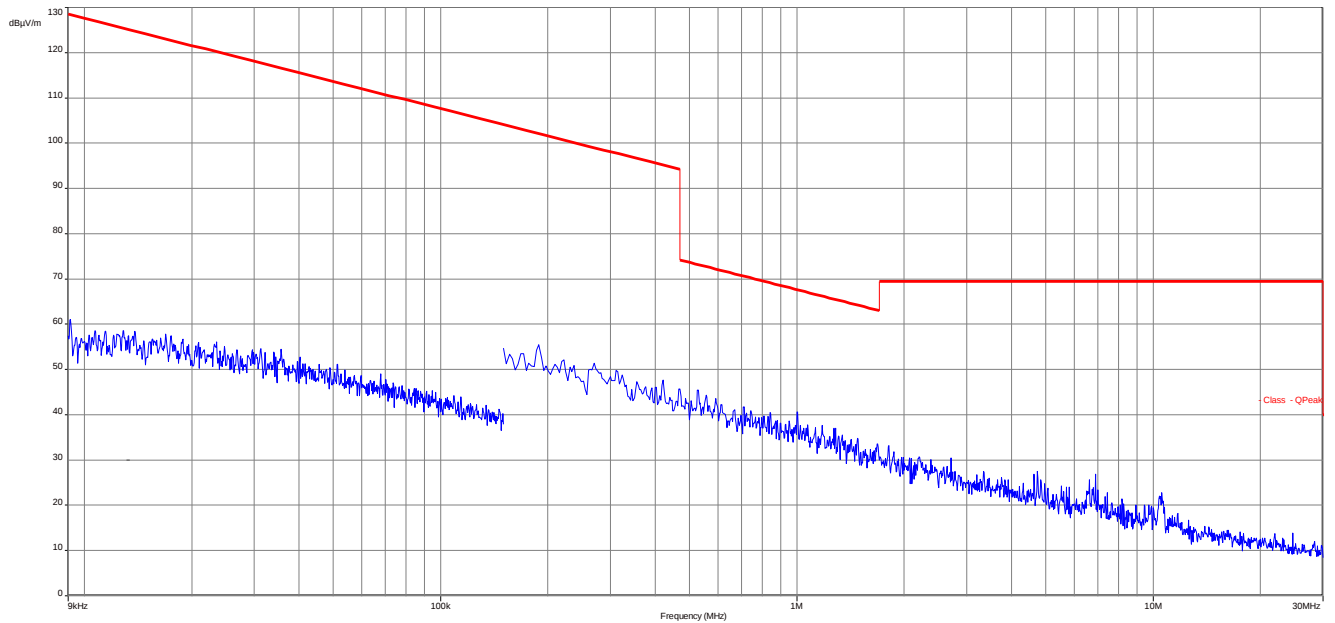


Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Comment
84.635400	20.0	1000.0	120.000	170.0	V	10.0	9.8	10.0	30.0	
126.945450	25.8	1000.0	120.000	104.0	V	190.0	9.7	7.7	33.5	
148.100400	20.2	1000.0	120.000	105.0	V	190.0	8.9	13.3	33.5	
369.969300	19.6	1000.0	120.000	170.0	H	10.0	16.4	16.4	36.0	
380.857800	32.1	1000.0	120.000	170.0	H	1.0	16.6	3.9	36.0	
423.437250	18.8	1000.0	120.000	170.0	H	10.0	17.3	17.2	36.0	

Plots: TX mode, external antenna

Plot 1: 9 kHz – 30 MHz; magnetic, external antenna



Plot 2: 30 MHz – 1000 MHz, vertical and horizontal polarization, external antenna

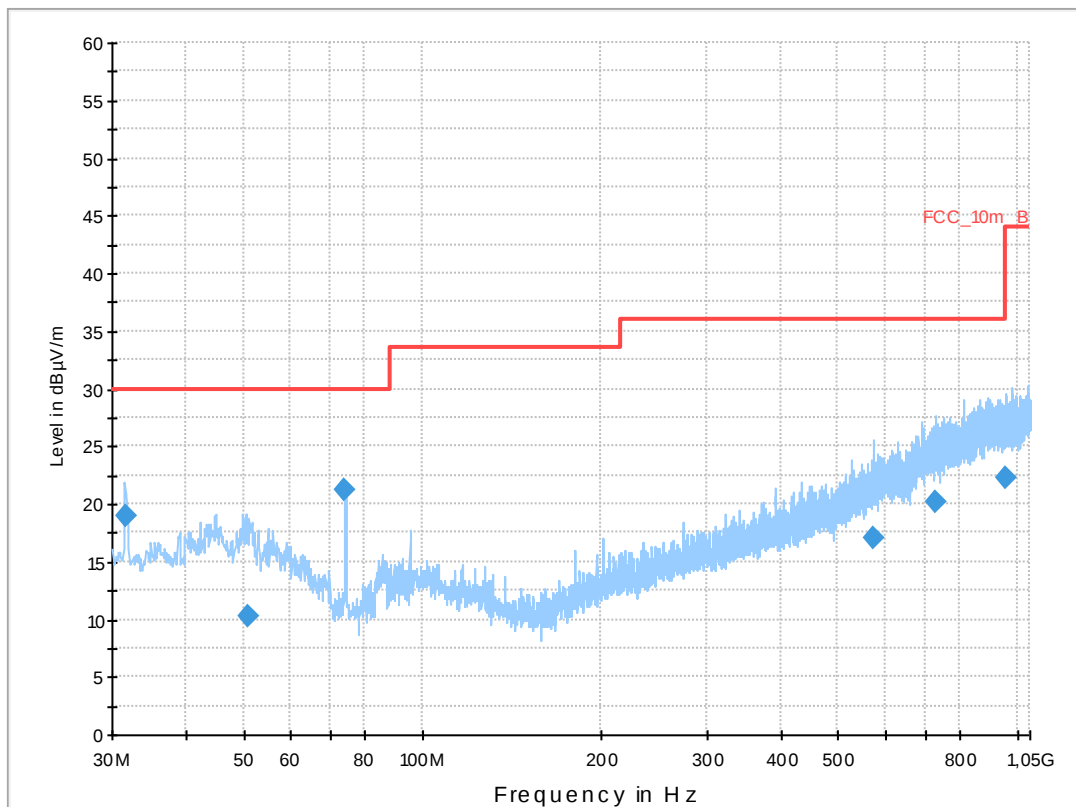
Common Information

EUT: ComPilot II
 Test Description: FCC part 15 class B @ 10 m
 Operating Conditions: tx@10.6MHz neckloop antenna (long) + audio in + charging
 Operator Name: Wolsdorfer
 Comment: AC 115V/60Hz

Scan Setup: STAN_Fin [EMI radiated]

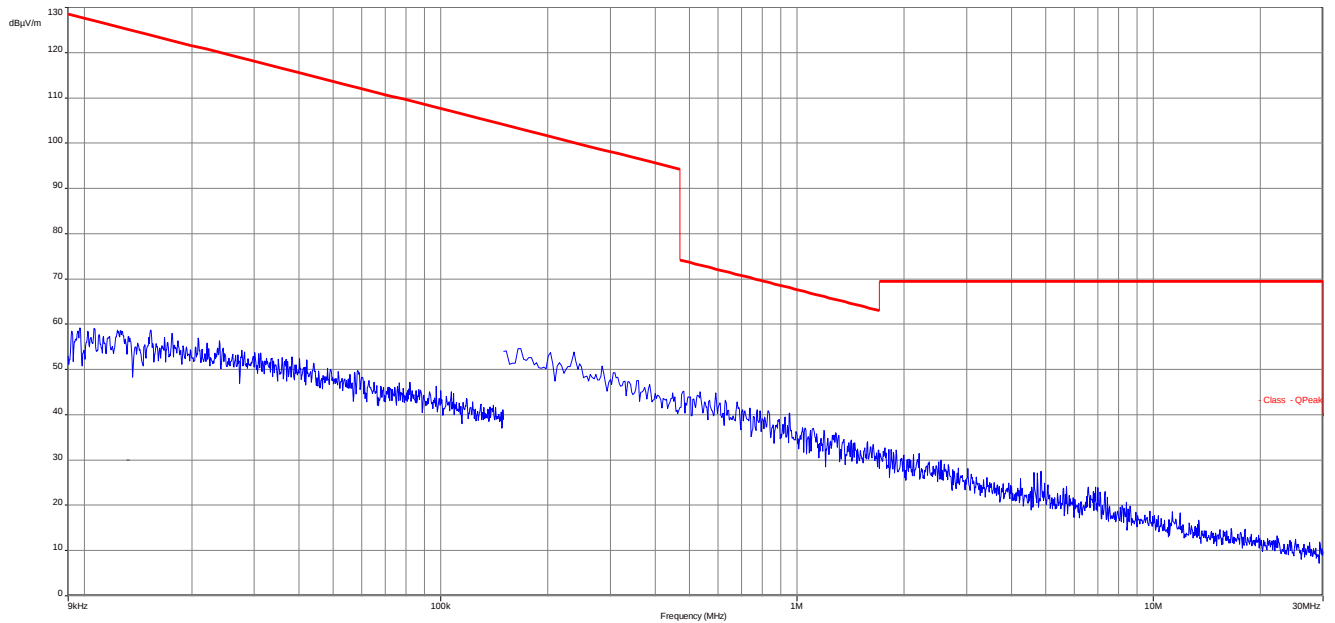
Hardware Setup: Electric Field (NOS)
 Receiver: [ESCI 3]
 Level Unit: dB μ V/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
31.752750	18.9	1000.0	120.000	98.0	V	268.0	12.7	11.1	30.0	
50.743050	10.2	1000.0	120.000	170.0	V	177.0	13.3	19.8	30.0	
74.048250	21.2	1000.0	120.000	170.0	V	280.0	9.2	8.8	30.0	
574.373550	17.1	1000.0	120.000	170.0	H	-10.0	20.1	18.9	36.0	
730.803300	20.2	1000.0	120.000	153.0	V	190.0	23.2	15.8	36.0	
955.893000	22.3	1000.0	120.000	170.0	H	-5.0	25.4	13.7	36.0	

Plots: Idle mode**Plot 1:** 9 kHz – 30 MHz; magnetic

Plot 2: 30 MHz – 1000 MHz, vertical and horizontal polarization

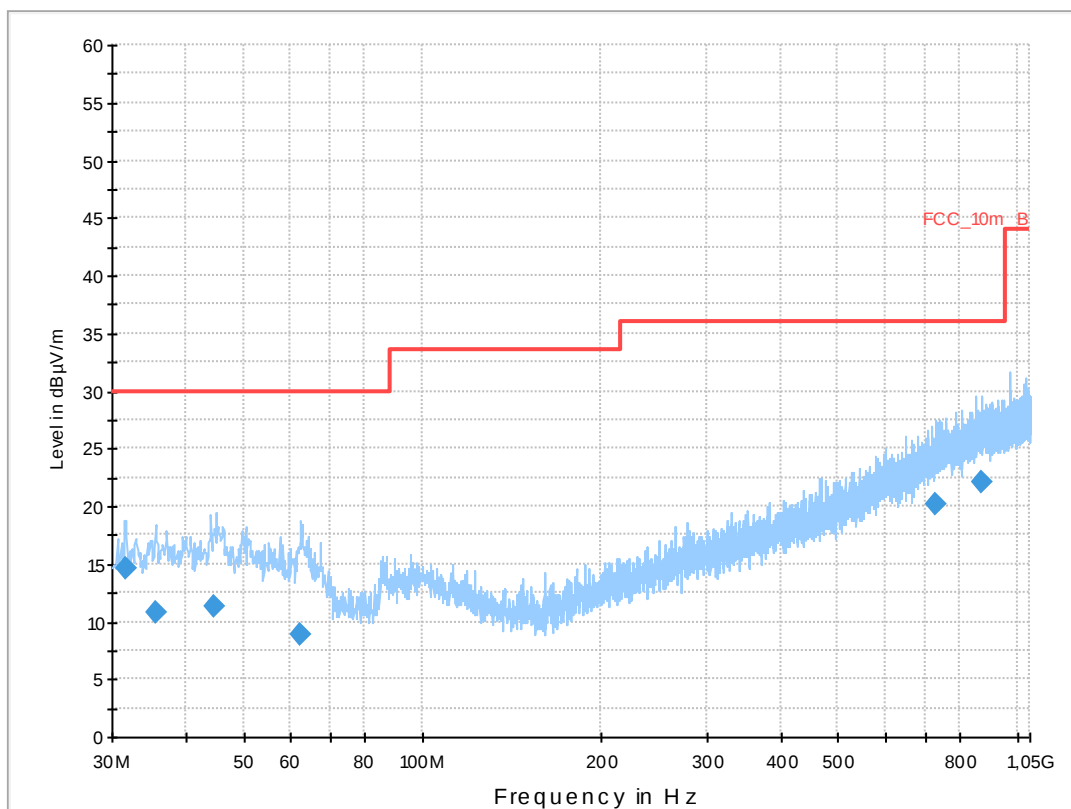
Common Information

EUT: ComPilot II
 Test Description: FCC part 15 class B @ 10 m
 Operating Conditions: idle@10.6MHz neck loop antenna connected + charging + audio
 Operator Name: Wolsdorfer
 Comment: AC 115V/60Hz

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Receiver: [ESCI 3]
 Level Unit: dB μ V/m

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamplifier
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
31.744650	14.5	1000.0	120.000	120.0	V	90.0	12.7	15.5	30.0	
35.454300	10.8	1000.0	120.000	133.0	V	92.0	13.1	19.2	30.0	
44.572050	11.4	1000.0	120.000	170.0	V	-9.0	13.3	18.6	30.0	
62.445150	8.8	1000.0	120.000	170.0	V	10.0	11.0	21.2	30.0	
728.009100	20.2	1000.0	120.000	111.0	H	-2.0	23.2	15.8	36.0	
874.032150	22.0	1000.0	120.000	170.0	V	190.0	24.9	14.0	36.0	

10.4 Spurious emissions conducted < 30 MHz

Description:

Measurement of the conducted spurious emissions in transmit mode below 30 MHz. The EUT is set to single channel mode and the transmit channel is channel 39. This measurement is representative for all channels and modes. If critical peaks are found channel 00 and channel 78 will be measured too. The measurement is performed in the mode with the highest output power. Both power lines, phase and neutral line, are measured. Found peaks are re-measured with average and quasi peak detection to show compliance to the limits.

Measurement:

Measurement parameter	
Detector:	Peak - Quasi peak / average
Sweep time:	Auto
Video bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz
Resolution bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz
Span:	9 kHz to 30 MHz
Trace-Mode:	Max Hold

Limits:

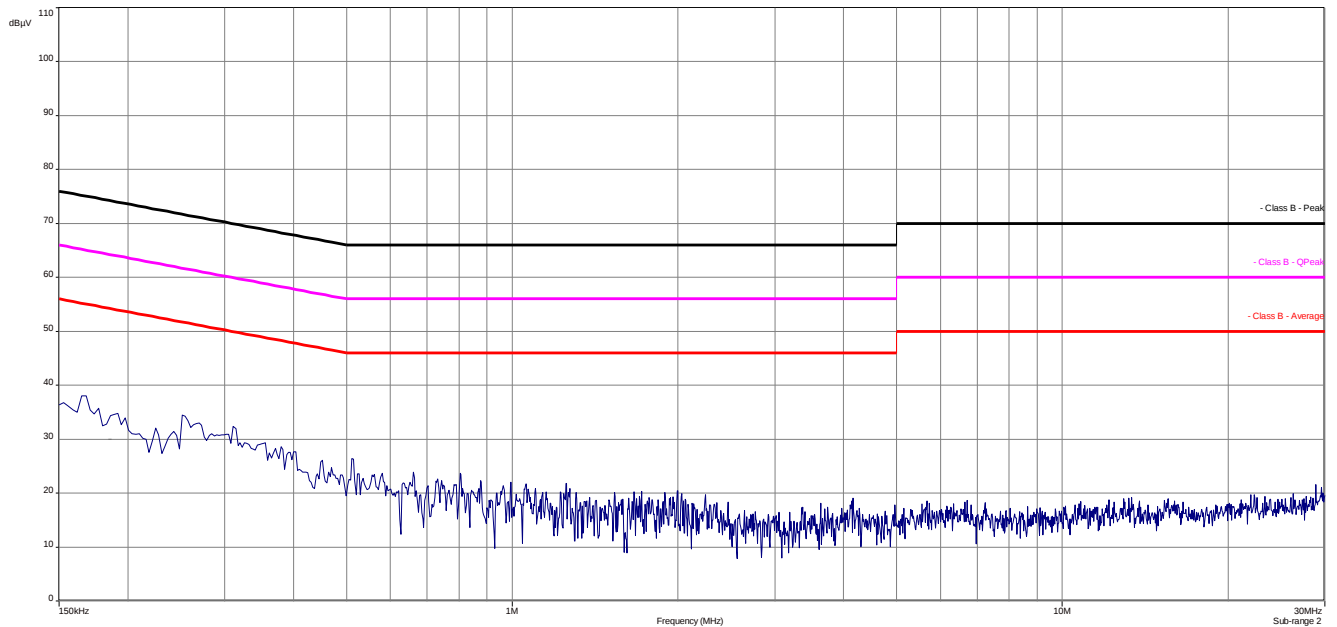
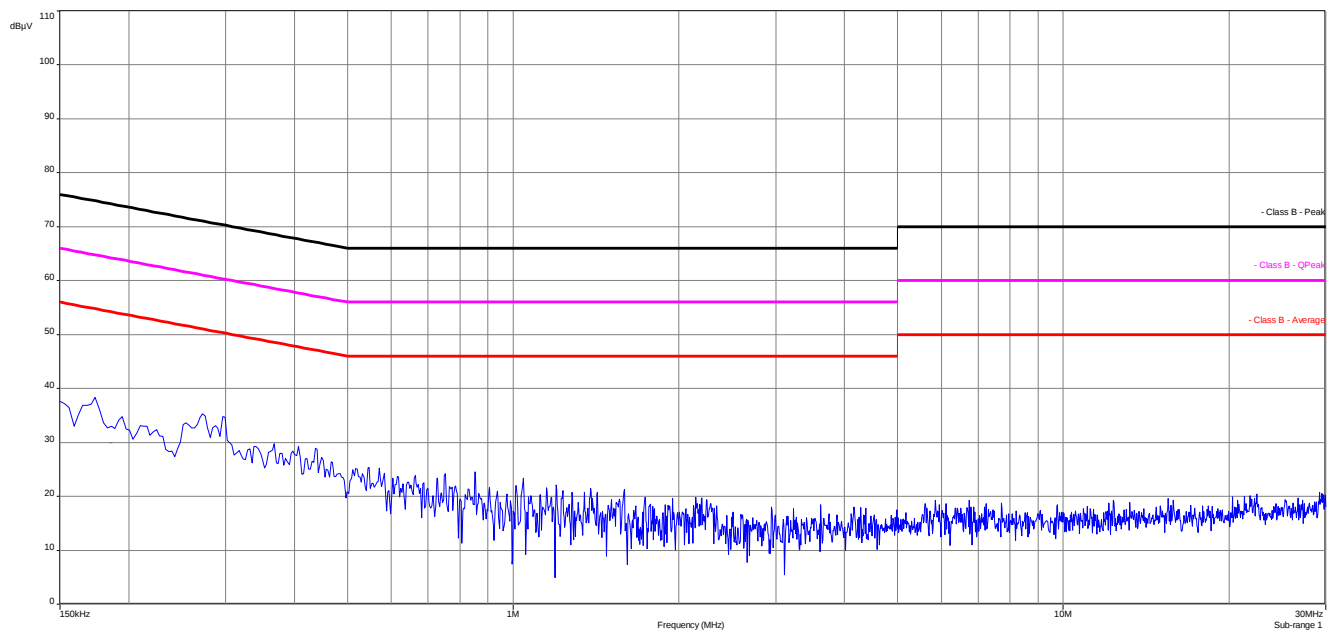
FCC		IC
TX spurious emissions conducted < 30 MHz		
Frequency / (MHz)	Quasi-peak / (dB μ V/m)	Average / (dB μ V/m)
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30.0	60	50

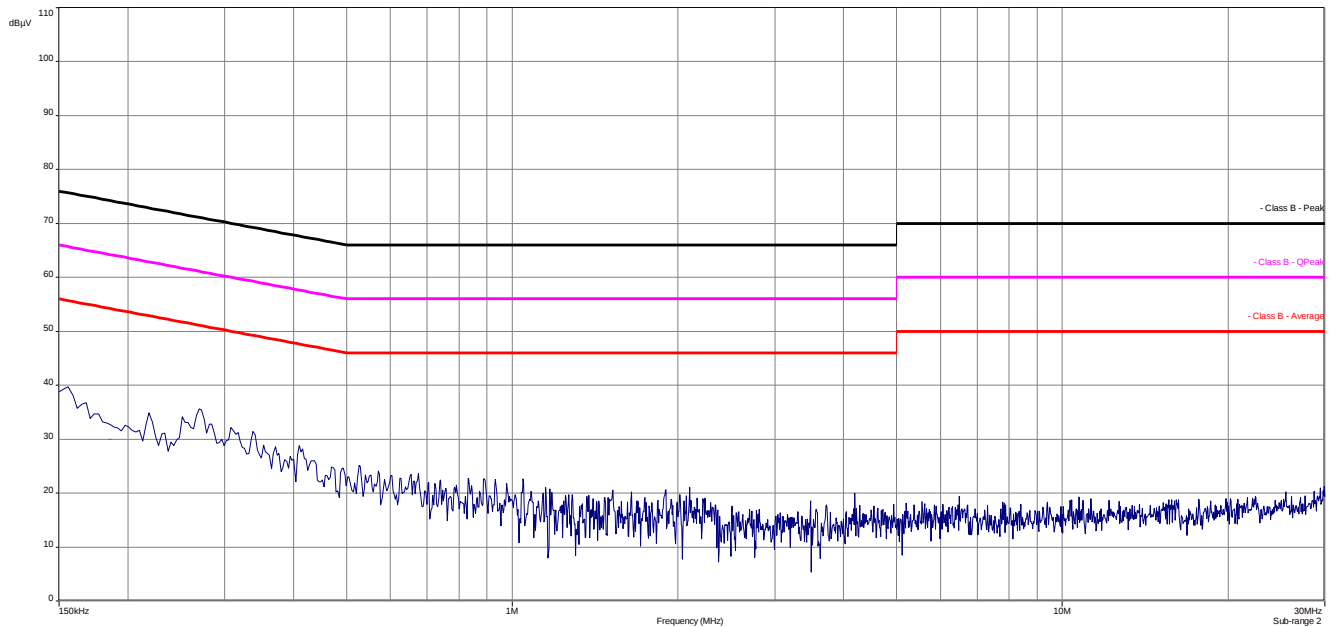
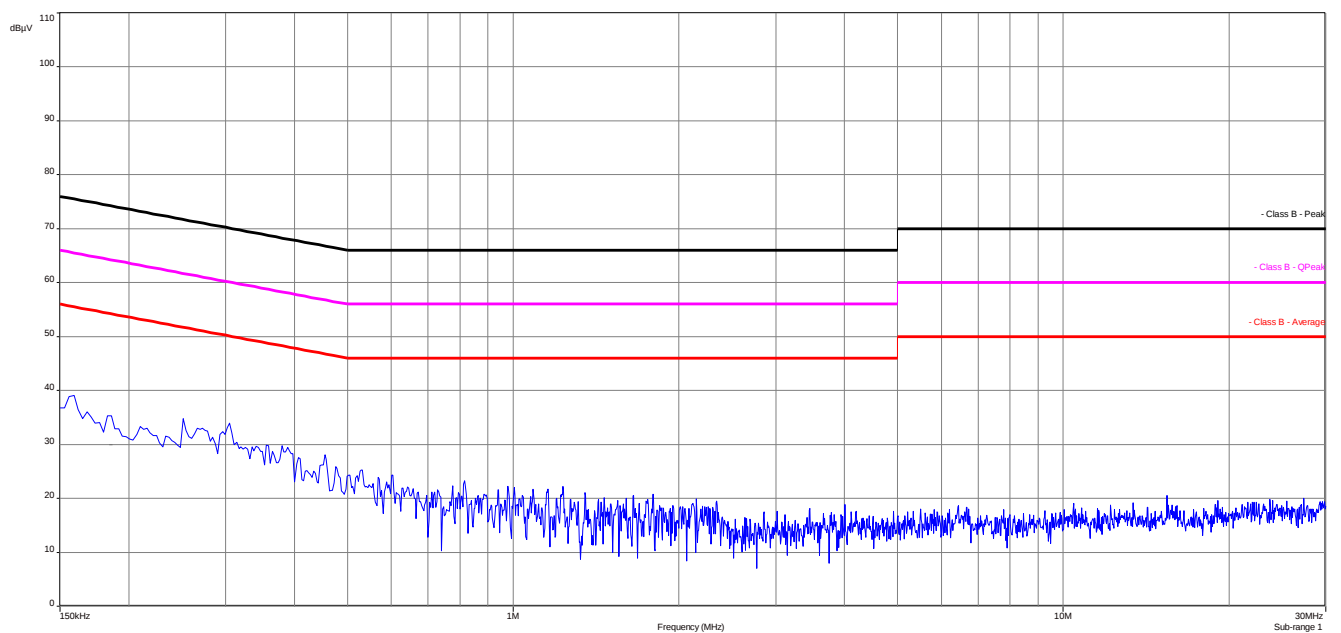
*Decreases with the logarithm of the frequency

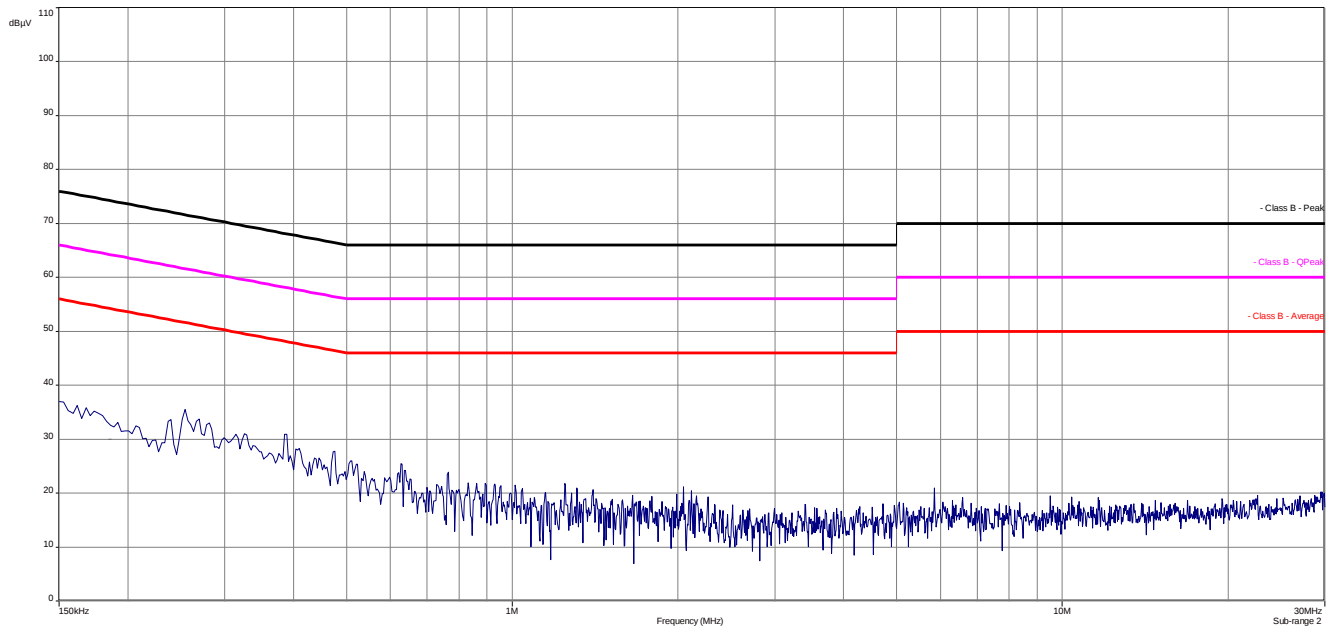
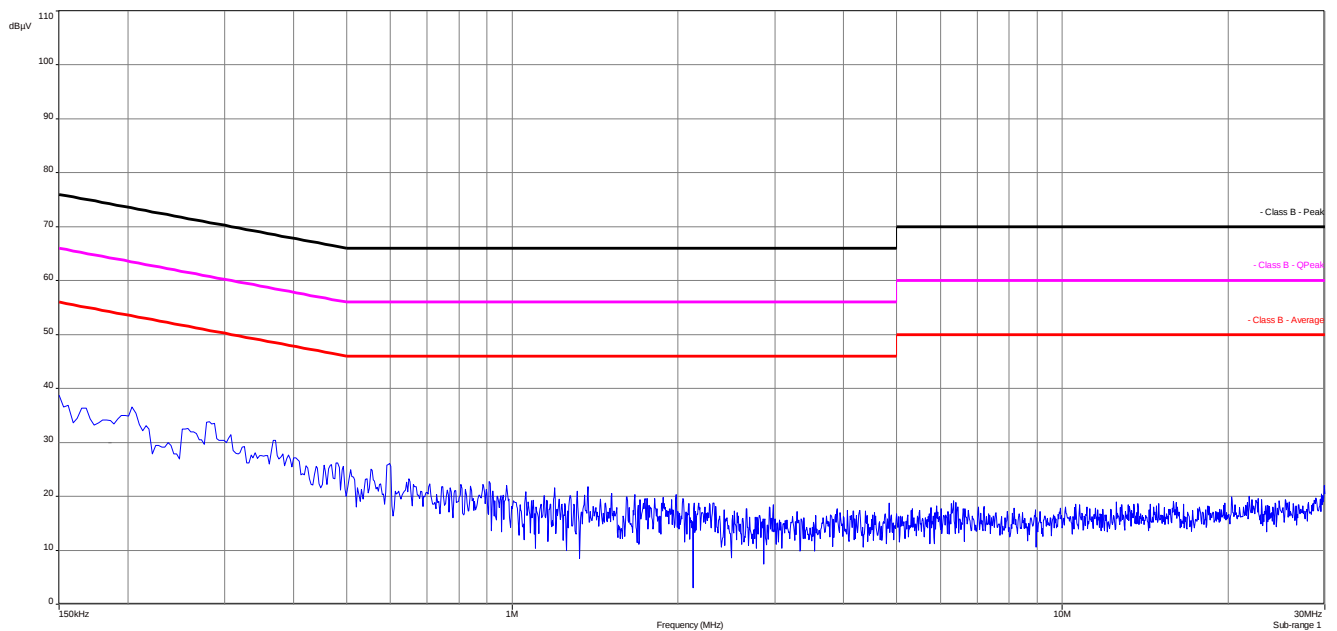
Results:

TX spurious emissions conducted < 30 MHz / (dB μ V/m)		
F / (MHz)	Detector	Level / (dB μ V/m)
No peaks detected		
Measurement uncertainty	± 3 dB	

Result: Passed

Plots:**Plot 1:** 150 kHz to 30 MHz, TX mode, phase line with internal antenna**Plot 2:** 150 kHz to 30 MHz, TX mode, neutral line with internal antenna

Plot 3: 150 kHz to 30 MHz, TX mode, phase line with external antenna**Plot 4:** 150 kHz to 30 MHz, TX mode, neutral line with external antenna

Plot 5: 150 kHz to 30 MHz, RX mode, phase line**Plot 6:** 150 kHz to 30 MHz, RX mode, neutral line

11 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

No.	Lab / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
2	50	DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580	ne		
3	n. a.	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	27.01.2014	27.01.2015
4	n. a.	Funkstörmessempfänger 20Hz-26,5GHz	ESU26	R&S	100037	300003555	k	28.02.2014	28.02.2015
5	n. a.	Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745	izw		
6	n. a.	Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746	izw		
7	n. a.	Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747	izw		
8	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	22.04.2014	22.04.2016
9	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vIKI!	08.05.2013	08.05.2015
10	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
11	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
12	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156	ne		
13	9	Isolating Transformer	MPL IEC625 Bus Regeltrennravo	Erfi	91350	300001155	ne		
14	n. a.	Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997	ne		
15	90	Active Loop Antenna 10 kHz to 30 MHz	6502	Kontron Psychotech	8905-2342	300000256	k	13.06.2013	13.06.2015
16	n. a.	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	vIKI!	14.10.2011	14.10.2014
17	n. a.	MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405	k	13.03.2014	13.03.2015
18	n. a.	Test Receiver	ESH2	R&S	871921/095	300002505	Ve	24.01.2014	24.01.2016
19	n. a.	Loop Antenna 9 KHz - 30 MHz	HFH2-Z2	R&S	872096/61	300001824	vIKI!	09.03.2012	09.03.2015

Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vlk!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

12 Observations

No observations exceeding those reported with the single test cases have been made.

Annex A Document history

Version	Applied changes	Date of release
	Initial release	2014-05-06
A	Editorial changes	2014-06-05

Annex B Further information**Glossary**

AVG	-	Average
DUT	-	Device under test
EMC	-	Electromagnetic Compatibility
EN	-	European Standard
EUT	-	Equipment under test
ETSI	-	European Telecommunications Standard Institute
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	Not applicable
PP	-	Positive peak
QP	-	Quasi peak
S/N	-	Serial number
SW	-	Software

Annex C Accreditation Certificate

Front side of certificate

Back side of certificate



Deutsche Akkreditierungsstelle GmbH

Befehlens gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen
von EA, ILAC und IAF zur gegenseitigen Anerkennung

Akkreditierung



Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Prüflaboratorium

CETECOM ICT Services GmbH
Untertürkheimer Straße 6-10, 66117 Saarbrücken

die Kompetenz nach DIN EN ISO/IEC 17025:2005 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

Drahtgebundene Kommunikation einschließlich xDSL
VoIP und DECT
Akustik
Funk einschließlich WLAN
Short Range Devices (SRD)
RFID
WiMax und Richtfunk
Mobilfunk (GSM / DCS, Over the Air (OTA) Performance)
Elektromagnetische Verträglichkeit (EMV) einschließlich Automotive
Produktsicherheit
SAR und Hearing Aid Compatibility (HAC)
Umweltsimulation
Smart Card Terminals
Bluetooth
Wi-Fi Services

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 07.03.2014 mit der
Akkreditierungsnummer D-PL-12076-01 und ist gültig 17.01.2018. Sie besteht aus diesem Deckblatt, der
Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 77 Seiten.

Registrierungsnummer der Urkunde: D-PL-12076-01-00

Frankfurt am Main, 07.03.2014

Zurückseite der Urkunde

Im Auftrag D-PL-12076-01-01
Hildegard

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38116 Braunschweig

Die auszugsweise Veröffentlichung der Akkreditierungsurkunde bedarf der vorherigen schriftlichen
Zustimmung der Deutsche Akkreditierungsstelle GmbH (DAkkS). Ausgenommen davon ist die separate
Weiterverbreitung des Deckblattes durch die umseitig genannte Konformitätsbewertungsstelle in
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Es darf nicht der Anschein erweckt werden, dass sich die Akkreditierung auch auf Bereiche erstreckt,
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Die Akkreditierung erfolgte gemäß des Gesetzes über die Akkreditierungsstelle (AkkStelleG) vom
31. Juli 2009 (BGBl. I S. 2025) sowie der Verordnung (EG) Nr. 765/2008 des Europäischen Parlaments
und des Rates vom 9. Juli 2008 über die Vorschriften für die Akkreditierung und Marktüberwachung
im Zusammenhang mit der Vermarktung von Produkten (Abt. L 228 vom 9. Juli 2008, S. 30).
Die DAkkS ist Unterzeichnerin der Multilateralen Abkommen zur gegenseitigen Anerkennung der
Europäischen Organisation für Akkreditierung (EA), des International Accreditation Forum (IAF) und
der International Laboratory Accreditation Cooperation (ILAC). Die Unterzeichner dieser Abkommen
erkennen ihre Akkreditierungen gegenseitig an.

Der aktuelle Stand der Mitgliedschaft kann folgenden Webseiten entnommen werden:
EA: www.european-accreditation.org
IAF: www.iaf.org
ILAC: www.ilac.org

Note:

The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

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